Coonabarabran High School

Assessment Notification

Subject:	Year 8 Science	**Task:**	Half Yearly Exam
Weighting:	20%	**Date:**	Week 5, Term 2 2019 (see exam timetable)

Topics: Living Systems and Elements, compounds and mixtures. Students will also be tested on their Science skills.

Equipment needed: blue or black pens, lead pencil, pencil sharpener, ruler, an eraser and calculator.

Length of exam: 1 period

Exam structure: 13 stations with 3 minutes allocated per station. Students start at one of the 13 stations located around the room. The teacher gives instruction on when to start and when they have 1 minute remaining at that station. The teacher then instructs students to move quickly and quietly to the next numerical station.

Year 8 Science – Revision guide

Knowledge and Understanding

Living systems

- Identify the levels of organisation in multicellular organisms – cell, tissue, organ, organ system, organism
- Explain that the systems in multicellular organisms work together to provide cell requirements including gases, nutrients and water, and to remove cell wastes.
- Describe the role of the flower, root, stem and leaf in plants.
- Recall the word equations for photosynthesis and respiration.
- Identify the requirements for photosynthesis and respiration.
- Recall the purpose of photosynthesis and respiration.
- Describe the role of the digestive, circulatory, excretory, skeletal/muscular and respiratory systems in humans.
- Outline the role of the reproductive system in humans.

Elements, Compounds and Mixtures

- Describe the difference between elements, compounds and mixtures in terms of the arrangement and types of particles.
- Draw diagrams to show the arrangement of particles in elements, compounds and mixtures.
- Name examples of elements, compounds and mixtures.
- Identify the properties of metals and non-metals.
- Locate metals and non-metals on the Periodic Table
- Relate the uses of some elements that are metals and non-metals to their properties.
- Explain why internationally recognised symbols are used for elements.
- Recall the symbols for common elements.

Skills

- Create scientific diagrams (2D / Lead Pencil / Ruler / Labels / Large and clear)
- Use the experiment report format (title, aim, hypothesis, materials, risk assessment, method, results, discussion, conclusion)
- Draw graphs (title, label axes, scale the numbers on the axes, line or column graph)
- Take accurate measurements (reading scales, choice of equipment)
- Calculate an average
- Make predictions based on scientific knowledge and observations
- Describe safety guidelines
- Correctly use scientific equipment
- Present information in tables, graphs and flow charts
- Follow a procedure
- Read and interpret diagrams
- Read and interpret a piece of text